

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (WITHDRAWN) A patterning apparatus for an electroluminescent display, comprising:

 a molding plate provided with a plurality of convex portions and concave portions;

 a polymer supplying roller adjacent to the molding plate to apply an electroluminescent material to the molding plate via rotational movement; and

 a molding roller attached to the molding plate to apply the electroluminescent material on the molding plate to an adjacent substrate via rotational movement.

2. (WITHDRAWN) The patterning apparatus according to claim 1, wherein each of the convex portions includes a land having a shape of stripe and extending linearly across a surface of the molding plate.

3. (WITHDRAWN) The patterning apparatus according to claim 1, wherein each of the convex portions includes a land having a small rectangular form.

4. (WITHDRAWN) The patterning apparatus according to claim 1, wherein each of the convex portions includes a land having a shape corresponding to a pixel pattern.

5. (WITHDRAWN) The patterning apparatus according to claim 2-4, wherein a surface of the land contains a plurality of minute indentations.

6. (WITHDRAWN) The patterning apparatus according to claim 1, wherein the substrate includes a barrier rib for preventing electroluminescent from spreading.

7. (WITHDRAWN) The patterning apparatus according to claim 6, the barrier rib is positioned between the pixels adjacent to each other and formed in a shape of stripe.

8. (WITHDRAWN) The patterning apparatus according to claim 6, the barrier rib is positioned between pixel and pixel, and formed in a shape of lattice.

9. (Currently Amended) A method of patterning an electroluminescent display while printing an electroluminescent layer, the method comprising the steps of which comprises:

providing a molding plate disposed on a molding roller, said molding plate containing a plurality of convex and concave portions, said convex portions defining lands;

providing a substrate under the molding roller;

applying an electroluminescent material to each land of the convex portions of the molding plate; and

printing minute portions of the electroluminescent material from the molding plate onto the a substrate by rotating the molding roller so that the land on each convex portion contacts the substrate to thereby pattern the electroluminescent display during said step of printing.

10. (Original) The method according to claim 9, wherein the applying and printing steps are repeated to form red, green and blue pixel patterns on the substrate.

11. (Previously Presented) The method according to claim 9, further comprising:

forming barrier ribs on the substrate for preventing a membrane spread of the electroluminescent material; and

forming pixel electrodes between the barrier ribs;

wherein the printing step deposits the electroluminescent material on the pixel electrodes.

12. (Original) The method according to claim 11, wherein each of the barrier ribs defines a boundary between pixels.

13. (Original) The method according to claim 11, wherein an upper portion of the barrier rib overlaps an edge of a pixel electrode.

14. (Previously Presented) The patterning method according to claim 11, wherein the height of the barrier rib is larger than the combined thickness of the electroluminescent material and adjacent pixel electrode.

15. (Previously Presented) The patterning method according to claim 11, wherein a material of the barrier rib is selected from the group consisting of SiNx and SiO₂.

16. (Previously Presented) The patterning method according to claim 11, wherein a material of the barrier rib is selected from the group consisting of polyimide and an acryl-group organic compound.

17. (Original) The patterning method according to claim 9, wherein the electroluminescent material includes a polymer solution.

18. (Previously Presented) The method according to claim 9, wherein the step of applying the electroluminescent material includes:

coating a supply roller with the electroluminescent material; and rotating both the supply roller and the molding roller so that the land on each of the convex portions contacts the electroluminescent material on the supply roller.

19. (Previously Presented) The method according to claim 18, wherein the coating step includes the step of:

controlling the electroluminescent material to have a substantially uniform thickness on the supply roller.

20. (Previously Presented) The method according to claim 11, wherein the barrier rib is positioned between the pixels adjacent to each other and formed in the shape of a stripe.

21. (Previously Presented) The method accordingly to claim 11, the barrier rib is positioned between adjacent pixels and formed in the shape of a lattice.

22. (Previously Presented) The method according to claim 9, wherein the electroluminescent material covers the lands to a thickness of less than 1000 Å.

23. (Previously Presented) The method according to claim 9, wherein after the electroluminescent material is printed onto the substrate, the electroluminescent material deforms to have an even surface.

24. (Previously Presented) The method according to claim 23, wherein the electroluminescent material is heated.

25. (Previously Presented) The method according to claim 9, wherein the substrate is a glass substrate.